



**Fluodyn™ B-PHYCOERYTHRIN**

From *Porphyridium Cruentum*, Precipitated PureGrade

“Improve your fluorescence power with our high quality B-Phycoerythrin”

Product Information

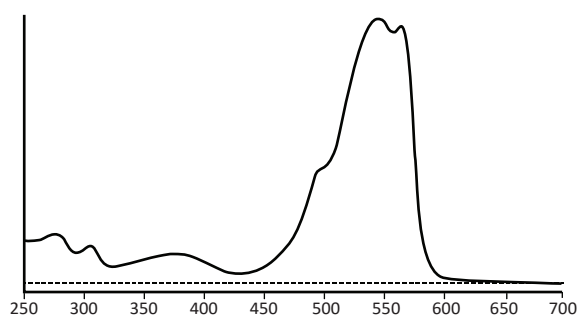
Overview

Fluodyn™ B-Phycoerythrin (B-PE) is a water-soluble fluorescent pigment protein extracted from *Porphyridium* sp. thanks to an innovative process developed by Biosciencia®. B-Phycoerythrin is a part of the photosynthetic machinery of red algae and its structure optimizes the capture and transfer of light energy. When the individual molecules are purified and isolated, they become highly fluorescent. Due to its high quantum yield and absorbance/fluorescent properties, B-PE offers a wide range of abilities as immunological assays, protein labelling, FRET and cell sorting. Labeling of macromolecules with B-PE can provide absorbance coefficients 30-fold higher than with small synthetic fluorophores.

Fluodyn™ B-Phycoerythrin is proposed under precipitated or lyophilized form. Precipitated form is provided with Quick Desalting System ready to use in few minutes. It can be conjugate with a wide range of molecules using standard reagent.

Spectrum

Fig. 1. Absorption spectra, wavelength in nm.



References

Glazer, A. N., “Phycobilisomes: structure and dynamics.” *Annu Rev Microbiol*, vol. 36, 1982.  
 Hulspas, R. et al., “Flow cytometry and the stability of phycoerythrin-tandem dye conjugates.” *Cytometry*, vol. 75A, 2009.  
 Oi, VT. et al., “Fluorescent phycobiliprotein conjugates for analyses of cells and molecules.” *J. Cell Biol.*, vol. 93, 1982.

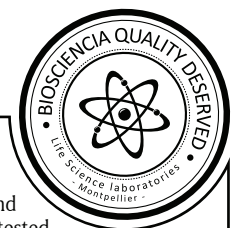
Absorption maximum	<b>546 nm ±2</b>
Emission maximum	<b>576 nm ±2</b>
Quantum yield	<b>0.98</b>
Purity	<b><math>A_{546}/A_{280} &gt; 5.5</math></b> <b><math>A_{620}/A_{546} &lt; 0.01</math></b>
Molecular weight	<b>240 KDa</b>
Extinction coefficient	<b>10</b>
Lasers compatibility	<b>488 - 568</b>

**Precipitated Form (with QDS\*)**

Concentration	<b>&gt; 10 mg.ml<sup>-1</sup></b>
Formula	<b>Ammonium sulfate 60%</b> <b>Sodium azide and EDTA</b>
Stability	<b>Cf. product packaging</b>
Storage	<b>Store at 4°C away from light.</b> <b>Do not freeze</b>
Origin	<b>France</b>

\*Quick Desalting System

Specifications



All Biosciencia® products are manufactured in adherence to the same high standards. The quality and integrity of each batch is not only tested at each step of production and after production but we also strictly monitor their storage conditions to avoid any abnormal degradation. This high level of attention means that you always receive a certified, high quality product. (Each product is registered with a unique batch number and a Certificate of Analysis.)

**For in vitro research use only.**  
**Not for diagnostic or therapeutic procedures.**